NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE LEM MECHANICAL POC.

2. REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL REQUIREMENTS:
   A. ENGINEERING MANUAL, MECHANICAL CHAPTER.
   B. SPEC 01325, WATER DISCHARGE REQUIREMENTS.
   C. SPEC 15140, POTABLE AND NON-POTABLE WATER PIPING.
   D. MECHANICAL DRAWING ST6005, SITE/BUILDING WATER COMPONENT DIAGRAM.

3. BACKFLOW PREVENTERS (BFP) MAY BE STACKED OR INSTALLED SIDE-BY-SIDE PROVIDED THAT THE MINIMUM AND MAXIMUM CLEARANCE DIMENSIONS ARE MAINTAINED.
   A. USE VERTICAL INSTALLATION (STACKED) WHERE POSSIBLE.
   B. 12" MINIMUM CLEARANCE IS REQUIRED WHEN BACKFLOW PREVENTERS ARE INSTALLED SIDE-BY-SIDE.

4. PROVIDE FLOOR DRAIN TO SANITARY SEWER NEAR BFP. ROUTE BFP DRAIN PIPING TO MINIMIZE A TRIPPING HAZARD.

5. FOR ONE BFP, THE MINIMUM DRAIN PIPING SIZE IS THE SAME SIZE AS THE AIR GAP BFP PORT SIZE. FOR 2 OR MORE BFP'S ON THE SAME DRAIN PIPING, THE MINIMUM COLLECTING DRAIN PIPING SIZE IS THE SUM OF THE INDIVIDUAL DRAIN PIPING AREAS.

6. BFP INSTALLED MORE THAN 5 FEET ABOVE FLOOR SHALL BE PROVIDED WITH A PLATFORM CAPABLE OF SUPPORTING A TESTER OR MAINTENANCE PERSON (UPC REQUIREMENT).

DRAWING DEVELOPED FOR ML-3 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

NO	DATE	CLASS REV	DESCRIPTION	DWN	VER	CHKD	SUB	APP
1	8-8-02	U	REVISED NOTES AND REVISED TO COMPLY WITH DRAFTING MANUAL	RP	AY	BB	BG	TD

FACILITY & WASTE OPERATIONS
SYSTEMS ENGINEERING & MAINTENANCE

LANL ENGINEERING MANUAL

BACKFLOW PREVENTER DETAIL
DESIGN NOTES

BLDG. X TA-X

DRAWN	R.PEARSON
DESIGN	R.FROST
CHECKED	G.CREWAL
DATE	8-28-99

SUBMITTED
DISCIPLINE POC: GURINDER CREWAL

APPROVED FOR RELEASE
STANDARDS MANAGER: TOBIN GRUCH

Los Alamos NATIONAL LABORATORY
PO Box 1663
Los Alamos, New Mexico 87545

SHEET 3
3 OF 3

CLASSIFICATION U | REVIEWER LARRY BAYS | DATE

PROJECT ID	DRAWING NO	REV
CHAPTER 6	ST6100	1

G:\LANL Engineering Standards\Eng. Manual [LEM]\2. Approved\ST6100N3r1.dwg, 08/11/02 @ 07:28 083688